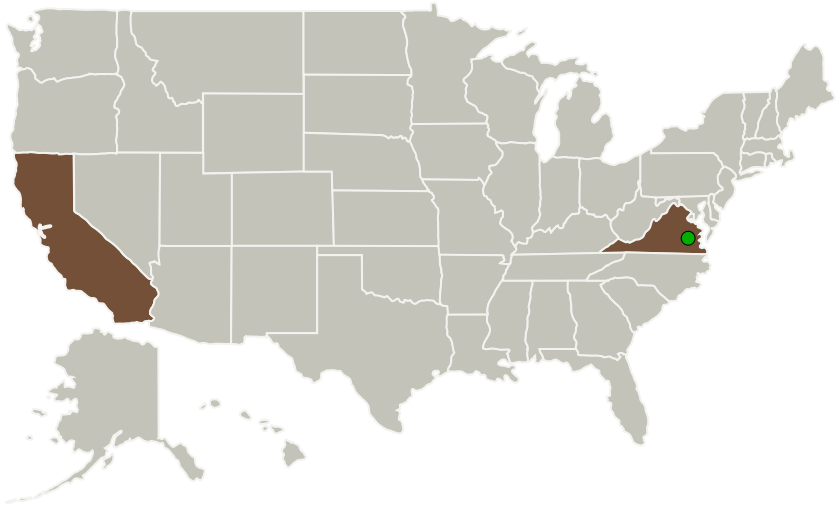
NASA Guided Dropsonde, Phase I

Completed Technology Project (2011 - 2011)

Project Introduction

Exquadrum, Inc. proposes to demonstrate the feasibility of an innovative approach to providing NASA with a Guided Dropsonde (NGD). NASA's desire to use existing aircraft systems such as the AVAPS aboard NASA/NOAA P-3 aircraft will be met by incorporating existing dropsonde sensors with innovative aerodynamics, deployment structures, and programmable control packages to facilitate more accurate observations in extreme conditions.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
Exquadrum, Inc.	Lead Organization	Industry Small Disadvantaged Business (SDB)	Adelanto, California
Langley Research Center(LaRC)	Supporting Organization	NASA Center	Hampton, Virginia

Primary U.S. Work Locations	
California	Virginia

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Table of Contents

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Project Transitions

February 2011: Project Start

September 2011: Closed out

Closeout Documentation:

- Final Summary Chart*(https://techport.nasa.gov/file/138345)*

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Exquadrum, Inc.

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Kevin E Mahaffy

Co-Investigator:

Kevin Mahaffy

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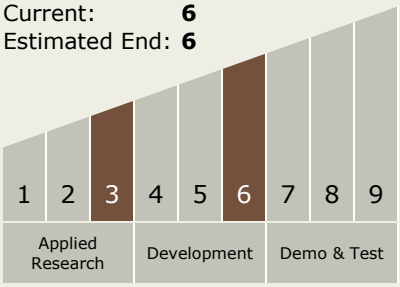
Technology Maturity (TRL)

Start: **3**
Current: **6**
Estimated End: **6**



Technology Areas

Primary:

- TX01 Propulsion Systems
  - TX01.1 Chemical Space Propulsion
    - TX01.1.5 Hybrids

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System